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# STIC Search Report

EIC 3600

STIC Database Tracking Number: 107706

Jeffrey Shapiro  
Location Knx5A41  
Art Unit: 3617  
Employee# 77498  
Wednesday, March 25, 2009  
Case Serial Number: 10/038377

From: Etelka R. Griffin  
Location: EIC 3600  
KNOX/4B68  
Phone: 571-272-4230

Etelka.griffin@uspto.gov

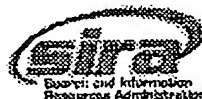
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Thanks  
Etelka



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071024 (09) 5967264 October 19, 1999

## UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**5967264**[Get Drawing Sheet 1 of 11](#)[Access PDF of Official Patent \\*](#)[Order Patent File History / Wrapper from REEDFAX®](#)[Link to Claims Section](#)

October 19, 1999

Method of monitoring item shuffling in a post-scan area of a self-service checkout terminal

**REISSUE:** October 19, 2001 - Reissue Application filed Ex. Gp.: 3652; Re. S.N. 10/038,377 (O.G. April 23, 2002)**APPL-NO:** 071024 (09)**FILED-DATE:** May 1, 1998**GRANTED-DATE:** October 19, 1999**ASSIGNEE-PRE-ISSUE:** May 1, 1998 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., NCR CORPORATION 1700 S. PATTERSON BLVD. LAW DEPARTMENT DAYTON, OHIO, 45479, Reel and Frame Number: 009136/0421**ASSIGNEE-AT-ISSUE:** NCR Corporation, Dayton, Ohio, United States (US), United States company or corporation (02)**CORE TERMS:** post-scan, sub, processing, user, terminal, log, checkout, self-service, decrease, routine ...**ENGLISH-ABST:**

A method of monitoring item shuffling in a post-scan area of a self-service checkout terminal having a post-scan shelf, a bagwell with a grocery container positioned therein, and a weight scale positioned so as to detect weight of items positioned both on the post-scan shelf and in the grocery container, includes the step of detecting removal of a first number of items from the post-scan shelf with the weight scale and generating a first weight decrease value in response thereto which corresponds to the weight of the first number of items. The method also includes the step of detecting placement of a second number of items into the grocery container with the weight scale and generating a first weight increase value in response thereto which corresponds to the weight of the second number of items. The method further

Includes the step of comparing the first weight decrease value to the first weight increase value and generating a first match control signal in response thereto if the first weight decrease value matches the first weight increase value.

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Segments: Appl-no, Assignee, English-abst, Filed-date, Reissue

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Family Accession Nbr :

20042791173339

Patent Number :

US5967264	A	19991019	[US5967264]
EP0953948	A2	19991103	[EP-953948]
JP2000105877	A	20000411	[JP2000105877]
EP0953948	A3	20050615	[EP-953948]

Title :

Method of monitoring item shuffling in a post-scan area of a self-service checkout terminal

Patent Assignee :

NCR CORP  
NCR INT INC

Orig. Patent Assignee :

NCR INTERNATIONAL INC.; 1700 South Patterson Boulevard; Dayton, Ohio  
45479 (US)

Inventor(s) :

LUTZ DUSTY LEE; MASON TIMOTHY EDWARD; MALCHAK CHRISTOPHER ANDREW;  
MASSIGH ALI MORADD

Application Nbr :

1998US-0071024 19980501; 1999EP-0303392 19990429; 1999JP-0161425  
19990506

Priority Details :

1998US-0071024 19980501

IPC :

A47F-009/00  
A47F-009/04  
G01G-019/40  
G01G-019/414  
G01G-019/415  
G06F-017/60  
G06Q-050/00  
G07G-001/00  
G07G-001/12

IPC Advanced All :

G07G-001/12 [2006-01 A F I R M JP]; A47F-009/04 [2006-01 A - I R M EP]; G01G-019/414 [2006-01 A - I R M EP]; G01G-019/415 [2006-01 A - I R M EP]; G06Q-050/00 [2006-01 A L I R M JP]; G07G-001/00 [2006-01 A - I R M EP]

IPC Core All :

G07G-001/12 [2006 C F I R M JP]; A47F-009/00 [2006 C - I R M EP];  
G01G-019/40 [2006 C - I R M EP]; G06Q-050/00 [2006 C L I R M JP];  
G07G-001/00 [2006 C - I R M EP]

ECLA :

A47F-009/04D1A  
G01G-019/415  
G07G-001/00C2D

US Class :

ORIGINAL (O) : 186061000; CROSS-REFERENCE (X) : 235383000

FI-Terms :

G06F15/21 310Z; G07G1/12 331A; G07G1/12 361Z; G06F17/60 118

F-Terms (File forming terms) :

5B049 AA05; 5B049 AA06; 5B049 BB11; 5B049 CC36; 5B049 DD00; 5B049 DD02;  
5B049 EE01; 5B049 EE02; 5B049 FF04; 5B049 GG01; 3E042 BA11; 3E042 BA17;  
3E042 CA02; 3E042 CC08; 3E042 CE07; 3E042 EA01; 3E142 BA16; 3E142 CA12;  
3E142 DA08; 3E142 DA11; 3E142 FA41; 3E142 GA24; 3E142 GA41

Designated States :

(EP-953948)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Citations :

(EP-953948)

Cited in the search report

-EP0498311 (A1) (Cat. X) [EP-498311]  
-US5083638 (A) (Cat. X) [US5083638]  
-US5125465 (A) (Cat. X) [US5125465]  
-EP0654477 (A2) (Cat. X) [EP-654477]  
-DE3724204 (A1) (Cat. A) [DE3724204]  
-US4661908 (A) (Cat. A) [US4661908]  
-US4779706 (A) (Cat. A) [US4779706]

**Citations :**

(US5967264)  
US3878365 [US3878365] 235061700R  
-US4661908 [US4661908] 364405000  
-US4779706 [US4779706] 186061000  
-US4787467 [US4787467] 235383000  
-US5125465 [US5125465] 177050000  
-US5191749 [US5191749] 053502000  
-US5637847 [US5637847] 235383000  
-US5898158 [US5898158] 186062000

**Abstract :**

(EP-953948)

A method of monitoring item shuffling in a post-scan area of a self-service checkout terminal (10) having a post-scan shelf (42b), a bagwell (38) with a grocery container (40) positioned therein, and a weight scale (20) positioned so as to detect weight of items positioned both on the post-scan shelf (42b) and in the grocery container (40), includes the step of detecting removal of a first number of items from the post-scan shelf (42b) with the weight scale and generating a first weight decrease value in response thereto which corresponds to the weight of the first number of items. The method also includes the step of detecting placement of a second number of items into the grocery container (40) with the weight scale (20) and generating a first weight increase value in response thereto which corresponds to the weight of the second number of items. The method further includes the step of comparing the first weight decrease value to the first weight increase value and generating a first match control signal in response thereto if the first weight decrease value matches the first weight increase value. <IMAGE>

**Object of Invention :**

(EP-953948)

The present invention relates generally to a retail checkout terminal, and more particularly to a method of monitoring item shuffling in a post-scan area of a self-service checkout terminal.

It is an object of the invention to provide a self-service checkout terminal which overcomes one or more of the above-mentioned drawbacks. According to the present invention there is provided a method of monitoring item shuffling in a post-scan area of a self-service checkout terminal, with the post-scan area including a post-scan surface, characterized by the steps of detecting removal of a first number of items from the post-scan surface and generating a first weight decrease value in response thereto which corresponds to the weight of the first number of items,

**Advantages / Prev. Drawbacks :**

(EP-953948)

Moreover, it is desirable to allow a customer to move or shuffle items which have previously been scanned or otherwise entered in the self-service checkout terminal so as to facilitate operation of the terminal.

In particular, it is desirable to provide a security system for the self-service checkout terminal that reduces the number of occasions in which a customer places an unscanned or otherwise unentered item into a grocery bag or a post-scan shelf.

However, in the case of a self-service checkout terminal, the terminal

itself must provide the necessary security.

For example, if the processing unit 26 determines that the user placed an item into the post-scan area 17 without having previously scanned or otherwise entered the item into the terminal 10 in the manner discussed above, the processing unit 26 causes a message to be displayed on the display monitor 32 which instructs the user to remove the item from the post-scan area 17 and thereafter properly enter the item.

However, if the value of IX does not match the value of DX, the routine 56 advances to step 84.

**Independent Claims :**

(EP-953948)

1. A method of monitoring item shuffling in a post-scan area of a self-service checkout terminal (10), with the post-scan area including a post-scan surface (38,42b), characterized by the steps of detecting removal of a first number of items from the post-scan surface (38,42b) and generating a first weight decrease value in response thereto which corresponds to the weight of the first number of items, detecting placement of a second number of items onto the post-scan surface and generating a first weight increase value in response thereto which corresponds to the weight of the second number of items, and comparing the first weight decrease value to the first weight increase value and generating a first match control signal in response thereto if the first weight decrease value matches the first weight increase value.

**Update New docs :**

2000-26

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**Patent Number :**

US5967264 A 19991019 [US5967264] (A) Patent

**Application Number :**

US7102498 19980501 [1998US-0071024]

**Publication actions :**

19980501 US-API [POS; EXM]

**FILING DETAILS**

US7102498 19980501 [1998US-0071024]

19991019 US-A [POS; EXM]

**Patent**

US5967264 A 19991019 [US5967264]

**Action Taken :**

20020423 US/RF-A [OPP]

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20011019

**Lasted Event Group :**

OPP

Alive

**Update Code :**

2003-22

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**Patent Number :**

EP0953948 A2 19991103 [EP-953948]

(A2) Application published without search report

EP0953948 A3 20050615 [EP-953948]

(A3) Search report

**Application Number :**

EP99303392 19990429 [1999EP-0303392]

**Publication actions :**

19990429 EP-API [POS; EXM]

FILING DETAILS

EP99303392 19990429 [1999EP-0303392]  
19991103 EP-A2 [POS; EXM]  
Application published without search report  
EP0953948 A2 19991103 [EP-953948]  
20050615 EP-A3 [POS; EXM]  
Search report  
EP0953948 A3 20050615 [EP-953948]

Action Taken :

19991103 EP/AK-A [POS; ADM]  
DESIGNATED CONTRACTING STATES:  
BENANNTTE VERTRAGSSTAATEN  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

19991103 EP/AX-A [POS; ADM]  
EXTENSION OF THE EUROPEAN PATENT TO  
ERSTRECKUNG DES EUROPÄISCHEN PATENTS AUF  
AL;LT;LV;MK;RO;SI

20000126 EP/RIN1-A [NMC; ADM]  
INVENTOR (CORRECTION)  
ERFINDER (KORR.)  
MASON, TIMOTHY EDWARD

20000126 EP/RIN1-A [NMC; ADM]  
INVENTOR (CORRECTION)  
ERFINDER (KORR.)  
LUTZ, DUSTY LEE

20000126 EP/RIN1-A [NMC; ADM]  
INVENTOR (CORRECTION)  
ERFINDER (KORR.)  
MALCHAK, CHRISTOPHER ANDREW

20000126 EP/RIN1-A [NMC; ADM]  
INVENTOR (CORRECTION)  
ERFINDER (KORR.)  
MASSIGH, ALI MORADD

20050615 EP/AK-A [POS; ADM]  
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7 A47F-009/04 B

20050615 EP/RIC1-A [CCL]  
CLASSIFICATION (CORRECTION)  
KLASSIFIKATION (KORR.)  
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20060208 EP/17P-A [POS; EXM]  
REQUEST FOR EXAMINATION FILED  
PRUEFUNGSANTRAG GESTELLT  
EFFECTIVE DATE: 20051215

20060308 EP/AKX-A [POS; ADM; PIF]  
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DE FR GB

20080723 EP/18W-A [NEG; NIF]  
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EFFECTIVE DATE: 20080618  
Lasted Event Group :  
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Update Code :  
2008-30

1 / 1 CRXX - @CLAIMS/RRX  
Patent Number :  
5,967,264 A 19991019 [US5967264]  
Patent Assignee :  
NCR Corp  
Actions :  
20011019 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20020423  
REISSUE REQUEST NUMBER: 10/038377  
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Patent Number :  
US5967264 A 19991019 [US5967264]  
Title :  
(A) Method of monitoring item shuffling in a post-scan area of a  
self-service checkout terminal  
Patent Assignee :  
(A) NCR CORP (US)  
Patent Assignee :  
NCR Corporation, Dayton OH [US]  
Inventor(s) :  
(A) LUTZ DUSTY L (US); MALCHAK CHRISTOPHER A (US); MASON TIMOTHY E  
(US); VASSIGH ALI M (US)  
Application Nbr :  
US7102498 19980501 [1998US-0071024]  
Priority Details :  
US7102498 19980501 [1998US-0071024]  
Intl Patent Class :  
(A) A47F-009/04  
IPC Advanced All :

G07G-001/12 [2006-01 A F I R M JP]; A47F-009/04 [2006-01 A - I R M EP];  
G01G-019/414 [2006-01 A - I R M EP]; G01G-019/415 [2006-01 A - I R M  
EP]; G06Q-050/00 [2006-01 A L I R M JP]; G07G-001/00 [2006-01 A - I R M  
EP]

**IPC Core All :**

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**Abstract :**

A method of monitoring item shuffling in a post-scan area of a self-service checkout terminal having a post-scan shelf, a bagwell with a grocery container positioned therein, and a weight scale positioned so as to detect weight of items positioned both on the post-scan shelf and in the grocery container, includes the step of detecting removal of a first number of items from the post-scan shelf with the weight scale and generating a first weight decrease value in response thereto which corresponds to the weight of the first number of items. The method also includes the step of detecting placement of a second number of items into the grocery container with the weight scale and generating a first weight increase value in response thereto which corresponds to the weight of the second number of items. The method further includes the step of comparing the first weight decrease value to the first weight increase value and generating a first match control signal in response thereto if the first weight decrease value matches the first weight increase value.

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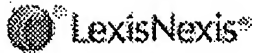
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